

# **CURRICULUM VITAE**

## **WILLIAM M. SCHNECK, M.S., A.B.C.**

### **Professional Experience:**

Microvision Northwest - Forensic Consulting, Inc., President and principal scientist, 1995 - present.

Unearthed Solutions-Anthropological Microscopy Services, LLC, Co-Founder, 2016 - present

Forensic Scientist- Materials Analysis Unit, Washington State Patrol Crime Laboratory, 1990-present.  
Specialized duties: Technical Lead, Materials Analysis Unit and Crime Scene Response Team.

California Criminalistics Institute (CCI), Sacramento, CA., Microanalysis Instructor, 1998-present.

Hooke College of Applied Sciences, Westmont, IL., Adjunct Professor of Microscopy, 2006-2012.

University of California - UC Davis, Survey in Forensic Science Instructor, 2003-2005

Eastern Washington University, Cheney, WA, Department of Chemistry/Forensic Science Adjunct faculty, 2003-2004.

Coordinator, Materials Characterization Section, McCrone Associates/Environmental Services, Inc., Atlanta, GA, 1987-1990.

Registered Respiratory Therapist B.S., R.R.T., 1975-1995.

St. Mary's Hospital, Milwaukee WI, Burn unit

Piedmont Hospital, Atlanta, GA

Grady Memorial Hospital, Atlanta, GA

Egleston Children's Hospital (Emory University), Atlanta, GA

Deaconess Medical Center, Spokane, WA

Scottish Rite Children's Hospital, Atlanta, GA

William Schneck has extensive experience in the forensic microanalysis of materials including soil/minerals, wood, paper, paint, fibers, fabric, cordage, hairs, vehicle lamps, building materials, food/vomit, glass, impressions, explosives, physical match and metals utilizing polarizing light microscopy, microchemistry, scanning electron microscopy-energy dispersive spectroscopy, x-ray fluorescence spectroscopy and infrared spectroscopy. Mr. Schneck performs crime scene analysis and reconstruction including the interpretation of bloodstain patterns and firearms trajectory. Mr. Schneck's experience includes both criminal and civil expert witness testimony in state and federal court for both the prosecution and defense. Bill is an instructor in forensic microscopy and forensic geology, teaching workshops in the United States and abroad.

### **Education:**

M.S., Geology, Eastern Washington University, 1986.

B.S., Geology, Georgia State University, Atlanta, Georgia, 1983.

B.S., Allied Health Science, Georgia State University, 1978.

A.A.S., Respiratory Therapy, Milwaukee Area Technical College, 1976.

## **Publications, Workshops and Presentations:**

Schneck, W. M., *Basic Practical Microscopy*, California Criminalistics Institute (CCI) Instructor, 40 hour workshop, Sacramento, CA 1998-present. Over 22 workshops have been taught since 1998.

Schneck, W. M., *Forensic Building Materials Analysis*, California Criminalistics Institute (CCI) Instructor, 40 hour workshop, Sacramento, CA, 2000, 2006, 2007, 2008, 2009, 2010, 2016.

Schneck, W.M., Trace Evidence Collection and Documentation Workshop, International Association of Identification, Portland, Oregon, 2015.

Schneck, W. M., Stomach Contents Analysis, Encyclopedia of Forensic Sciences 2<sup>nd</sup> Edition, Elsevier Publishing Company, 2013.

Schneck, W. M., *Scientific Working Group for Geological Materials (SWGCEO) and Geo-sourcing in Forensic Investigations*, Northwest Association of Forensic Science, Annual meeting presentation, Missoula, MT., 2012.

Schneck, W. M., Criminalistics 101, Two day lecture and practical workshop in forensic laboratory analysis, given to all forensic scientists in the Washington State Patrol Crime Laboratory, 2011-2012.

Schneck, W. M., *Gastric Contents and Food Analysis / Forensic Soil Analysis*. Two one day workshops sponsored by the Forensic Science Initiative (FSI), West Virginia University, Continuing Education for Forensic Professionals, held in Savannah, GA, June 4-5, 2012.

Schneck, W. M., *Anthropogenic Materials in Soil*, Geological Association of Canada, 'Geoscience at the Edge', annual meeting presentation, sponsored by the International Union of Geological Sciences (IUGS) – Initiative on Forensic Geology, St. John's, Newfoundland, Canada, May 28, 2012.

Schneck, W. M., *Forensic Building Materials Analysis*, New York State Division of Criminal Justice Services, Monroe County Crime Laboratory, Rochester, NY, April 17-20, 2012.

Schneck, W. M., *What Did You Just Step In?! Use of Forensic Soil Examinations to Find Out*, American Academy of Forensic Science Convention workshop, Co-Chair, 2012, Atlanta, GA.

Schneck, W. M., *Forensic Building Materials Analysis*, Hooke College of Applied Sciences, Westmont, IL, 40 hour workshop, 2011.

Schneck, W. M., *Anthropogenic/Man-made Materials in Soil*, Forensic Geology Training Seminar-Roma Tre University, Rome, Italy, 2011.

Schneck, W. M., *Cases Studies in the Identification of Food Microtraces Derived from Vomit and Gastric Contents*, National Institute of Justice Trace Evidence Symposium, Kansas City, MO, 2011.

Schneck, W. M., *The Foundry Sand Murder* - Poster Presentation at the National Institute of Justice Trace Evidence Symposium, Kansas City, MO, 2011.

Schneck, W. M., *Forensic Soil Examination*, Hooke College of Applied Sciences, Westmont, IL, 40 hour workshop: 2011.

- Schneck, W. M., Gastric Contents and Food Analysis, Forensic Soil and Building Materials. Three one day workshops sponsored by the Forensic Science Initiative (FSI), West Virginia University, Continuing Education for Forensic Professionals, held in New Orleans, LA, March 31-April 2, 2011.
- Schneck, W. M., Third Soil Forensics International Conference on Criminal and Environmental Soil Forensics, November 2-4, 2010, Long Beach, CA, *Foundry Sand and Murder Investigations*.
- Schneck, W. M., The Macaulay Land Use Research Institute-Third Soil Forensics International Conference on Criminal and Environmental Soil Forensics, November 2, 2010, Long Beach, CA, *Murder Mystery and Microscopes*, a public forum.
- Schneck, W. M., Hooke College of Applied Sciences/McCrone Associates, Westmont, IL., 40 hour Workshop, *Forensic Soil Examination*, October, 2010.
- Schneck, W. M., *Trace Evidence Overview: Soil*, a 1 day course in soil analysis and technical procedures sponsored by the Forensic Science Initiative (FSI), West Virginia University, 2010 Continuing Education for Forensic Professionals, held in Fort Worth, Texas, March 10, 2010.
- Schneck, W. M., (2009). Particles: Form, in *Wiley Encyclopedia of Forensic Science*, Jamieson, A., Moenssens, A., (eds). John Wiley & Sons Ltd., Chichester, UK, pp 2001-2007.
- Schneck, W. M., (2009). Microchemistry, in *Wiley Encyclopedia of Forensic Science*, Jamieson, A., Moenssens, A., (eds). John Wiley & Sons Ltd., Chichester, UK, pp 1743-1749.
- Schneck, W. M., *Forensic Vomit and Food Identification*, Global Forensic Science Today-Scientific & Investigative Techniques, Issue 8, June, 2009.
- Schneck, W. M., *Trace Evidence Overview: Soil*, a 1 day course in soil analysis and technical procedures sponsored by the Forensic Science Initiative (FSI), West Virginia University, 2009 Continuing Education for Forensic Professionals, held in Las Vegas, NV, June 16, 2009.
- Schneck, W. M., *Forensic Analysis of Building Materials*, Host: Johnson County Crime Laboratory, Kansas City, Kansas. A 40 hour workshop in the analysis of building materials, April 20-24, 2009.
- Schneck, W. M., *CSI-Forensic Geology*, a public lecture presented at the Tellus Natural History Museum in Cartersville (Atlanta area) Georgia, April 7, 2009.
- Schneck, W.M., Murray, R., Ruffell, A, Donnelly, L and Molina, C. M., *First Course in IberoAmerican Forensic Geology*, Bogota, Columbia. A one week lecture sponsored by the National University of Columbia and the Department of Geosciences on March 30 - April 3, 2009.
- Schneck, W. M., *A Developing Science: An Examination of Forensic Evidence-Trace and Material Evidence Examination/Comparison*, Spokane County Prosecuting Attorney's Office, November 16, 2007.
- Schneck, W. M., The Geological Society of America, Guest Speaker - Public Forum, *CSI: Geology Gets the Dirt on Crime*, October 30, 2007, Denver, Colorado.
- Schneck, W. M., Forensic Geology Case Studies from the Northwest, The Geological Society of America Annual meeting, October 28-31, 2007, Denver, Colorado.

- Schneck, W. M., Forensic Analysis of Building Materials, Trace Evidence Symposium, NIJ and FBI Laboratory, August 13-16, 2007, Clearwater Beach, Florida.
- Schneck, W. M., Out-of House Lead instructor, Division of Criminal Investigation, Crime Laboratory Section, Cheyenne, Wy., Instructor and training program development in Physical Match and Vehicle Filament Examination.
- Schneck, W. M., Forensic *Microanalysis: Hardened Concrete, Bricks and Engineered Wood*, Global Forensic Science Today-Scientific & Investigative Techniques, Issue 2, May, 2007.
- Schneck, W. M., Forensic Investigations from the Northwest, Georgia Microscopical Society, MVA Scientific, Duluth, GA, May 1, 2007,
- Schneck, W. M., *Forensic Soil Examination (Part 1)*, McCrone College of Microscopy, Westmont, IL, 40 hour workshop: 2006, 2009, 2010.
- Schneck, W. M., *Forensic Light Microscopy*, 36 hour workshop for the Washington State Patrol-Cheney Crime Laboratory, June, 2006.
- Schneck, W.M., and Jenkins, J., Bamboo Fiber: Textile for the 21<sup>st</sup> Century, research paper presented at the Scientific Working Group for Materials Analysis (SWGMA), July, 2005, Washington D.C.
- Schneck, W.M., et at, Forensic Fiber Examiner Training Program, Scientific Working Group for Materials Analysis (SWGMA), Forensic Science Communications (FBI Publication), April 2005, Volume 7, Number 2.
- Bisbing, R. E. and Schneck, W. M., *Particle Analysis in Forensic Science*, Forensic Science Review, 18(2), July, 2006.
- Schneck, W. M., Bisbing, R. E. and Wolf, A., Forensic Soil Workshop Instructor, presented at the Joint SAFS-MAFS-MAAFS-CSFS Forensic Science meeting in Orlando, FL, 2004.
- Schneck, W. M., *Forensic Soil Research at Eastern Washington University*, Northwest Association of Forensic Scientists meeting in Missoula, MT, 2004.
- Schneck, W. M., *Mute Witness, Trace Evidence Analysis*, Edited by Max Houck, Elsevier Academic Press, Burlington, MA, pp. 165-190, 2004.
- Schneck, W. M., *Forensic Light Microscopy*, 40 hour workshop for the Utah State Crime Laboratory System, 2003.
- Jagmin, J., Schneck, W. M., Wojciechowski, R., *Forensic Explosives Examination: Analysis of Black Powders and Black Powder Substitutes*, Northwest Association of Forensic Scientists, workshop instructor, Spokane, WA., 2002.
- Schneck, W. M., Gastric Contents and Vomitus-Enzymatic and Microscopical Tests, Northwest Association of Forensic Scientists, Spokane, WA., 2002.
- Schneck, W. M., *Volcanic, Biogenic and Extra-Terrestrial Glass*, Northwest Association of Forensic Scientists, Spokane, WA., 2002.

- Schneck, W.M., *Examination of a Drum Microscope and its Accessories, Circa 1833*, Northwest Association of Forensic Scientists, Seattle, WA., 2000.
- Schneck, W. M., *Forensic Soil Examination*, Northwest Association of Forensic Scientists, workshop instructor, Seattle, WA., 2000.
- Schneck, W. M., *Forensic Microscopy: Hairs and Fibers*, MNW Instructor in a 40 hour workshop, Boise, ID, 2000.
- Schneck, W. M., *A Cereal Murder, Father Knows Best*, Inter-Micro microscopy convention, Chicago, IL., 1999.
- Schneck, W. M., et al, *Forensic Fiber Examination Guidelines, Technical Working Group for Materials Analysis, Fiber Subgroup (TWGMAT)*, FBI Laboratory Division, J. Edgar Hoover Building, Washington D.C., 1998.
- Schneck, W. M., *Forensic Light Microscopy Workshop, Microvision Northwest*, Utah State Crime Laboratory, Salt Lake City, Utah, 1997.
- Schneck, W. M., *Forensic Building Materials Workshop*, Northwest Association of Forensic Scientists, Missoula, Montana, spring meeting, 1997.
- Schneck, W. M., *The Case of the Ukanainan Bear Snare, an Unusual Jute Rope*, Northwest Association of Forensic Scientists spring meeting, Spokane, WA., 1996.
- Schneck, W. M., *Microanalysis in Forensic Science*, American Association of Materials Scientists Meeting, Spokane, WA, 1994.
- Schneck, W. M., *Epoxy Encapsulation Techniques for SEM-EDS and Reflected Light Microscopy*. Joint Northwest Association of Forensic Scientists and the Canadian Association of Forensic Science, Vancouver, British Columbia, 1994.
- Schneck, W. M., *Analytical Characterization and Identification of Pigments, Fibers, Hair and Soil*. Northwest Anthropological Conference, Spokane, WA., 1994.
- Schneck, W. M., *Natural Fiber Training Workshop*, Department of Justice, Forensic Science Division, Missoula, Montana, 1993.
- Schneck, W.M., *Clay Mineral Identification of Building Materials and Soils by Light Microscopy and Paper Fiber Identification*, Northwest Association of Forensic Scientists, Fall Meeting, Coeur d' Alene, Idaho, 1991.
- Schneck, W.M., *Diatomaceous Earth Trace Evidence in Washington State*. International Symposium on the Forensic Aspects of Trace Evidence, FBI Academy, Quantico, Virginia, 1991.
- Schneck, W.M., *Forensic Fiber Reference Manual*, Washington State Patrol Crime Laboratory Division, 1991.
- Schneck, W.M., *Fiber Microscopy Workshop*, Washington State Patrol Academy, Shelton, Washington, 1991.

Hopen, T., Bottrell, M., Brown, R., Kuksuk, R. Schneck, W., *Identification of Basic Hydromagnesite*, Inter-Micro 1990, Chicago, Illinois.

Schneck, W.M., Bottrell, M.C., Brown, R.S., Kremer, T., Hopen, T.J., *Analytical Methods in the Identification of Commercial Clays in Asbestos-Containing Building Materials*: National Asbestos Council, Anaheim, California, National Meeting, March, 1989.

Bottrell, M.C., Schneck, W.M., Hopen, T.J., *Identification of Commercial Clays in Asbestos-Containing Materials Using Polarized Light Microscopy and Microchemical Tests*: Geological Society of America Abstracts with Programs, v. 21, no. 3, Southeast Section Meeting, 1989.

Schneck, W.M., *Asbestos Reference and Asbestos Products Identification Sets*, McCrone Accessories and Components, Westmont, Illinois, 1988 and 1991.

Link, P.K., Christie-Blick, N., and Schneck, W.M., *Use of stratigraphic sequence boundaries as correlation tools in late Proterozoic-Cambrian strata of the Brigham and McCoy Creek Groups, Idaho, Nevada and Utah*: 12th International Sedimentological Congress abstract, Canberra, Australia, P. 185, 1986.

Schneck, W.M., *Lithostratigraphy of Upper Proterozoic and Lower Cambrian McCoy Creek Group and Prospect Mountain Quartzite, Egan and Southern Cherry Creek Ranges, Nevada*: American Association of Petroleum Geologists, v. 70, no. 5, p. 645-646, 1986.

Schneck, W. M. , and Fritz, W. J. , *An amphibian trackway (Cincosaurus cobbi) from the lower Pennsylvanian ("Pottsville") of Lockout Mountain, Georgia: A first occurrence*: Journal of Paleontology, v. 59, P. 1243-1250, 1985.

Schneck, W.M., and McCollum, L.B., *Upper Proterzoic and lower Phanerozoic fluvial deposits in the central Great Basin*: Geological Society of America Abstracts with Programs, v. 16, p. 164, 1985.

Schneck, W.M., *Sedimentology and Stratigraphy of the Cherry Creek District, Nevada*: Northwest Mining Association annual meeting, Spokane, Washington, poster session, 1984.

## **Courses and Workshops Attended:**

Above Photoshop Workshop by George Reis, 24 hour course taken at the WSP Crime Lab in Seattle, WA, May, 2014.

Forensic Crime Scene Photography, FBI, 40 hour course taken at WSP Academy, Shelton, WA, December 2013.

Trace Evidence Symposium, NIJ and the FBI Laboratory Division, Kansas City, Missouri, 2011.

Trace Evidence Symposium, NIJ and the FBI Laboratory Division, Clearwater Beach, Florida, 2009.

Advanced Bloodstain Pattern Analysis Course (40 hours), Gardner Forensic Consulting, Washington State Criminal Justice Training Center, Burien, WA, June 2008.

Trace Evidence Symposium, NIJ and the FBI Laboratory Division, Clearwater Beach, Florida, 2007.

Post Blast Investigator Course, U.S. Department of Justice, FBI, Bomb Data Center, May 18, 2007.

Shooting Scene Reconstruction Course, Noedel Scientific. 24 hour course, Washington State Criminal Justice Training Center, Burien, WA, and at the Seattle Police range, 2006.

Advanced Forensic Microscopy and Microchemistry, Microtrace, Skip Palenik, 75+ hour training course, Criminal Justice Training Center, Burien, WA., 2006.

Fundamentals of the Collection and Preservation of Footwear and Tiretrack Impressions Evidence, Ron Smith and Associates, Inc., Instructor D. Hilderbrand, Criminal Justice Training Center, Burian, WA, 2006.

QDI 1000 UV-visible-NIR Microspectrophotometer training by CRAIC Technologies, Dr. Jim Thorne, WSP Cheney Crime Laboratory, 2006.

Basics in Forensic Anthropology, NWAFS, 8 hour Workshop, Spokane, WA 2005.

Crime Scene Reconstruction, Tom Bevel Inc., Eugene Police Department, Eugene, OR., 2004

Crime Scene Investigation and Reconstruction, National Crime Investigation and Training. A 60 hour course taught by Joe Rynearson at the Washington State Criminal Justice Training Center, 2004.

Occult Crime Scenes, NWAFS workshop, Portland, OR., 2003.

Topics in the Examination of Footwear Impressions (included Nike outsole production facility tour), NWAFS workshop, Portland, OR, 2003.

Explosion Crime Scene and Safety Issues for First Responders, James B. Crippin, Western Forensic Law Enforcement Training Center, NWAFS workshop, Spokane, WA., 2002.

Explosive Devices, James B. Crippin, Western Forensic Law Enforcement Training Center, NWAFS workshop, Spokane, WA., 2002.

Wood and Wood Pulp Characterization and Identification, Walter Rantanen, Integrated Paper Services, NWAFS workshop, Spokane, WA, 2002.

Survey of Animal Hairs: Microscopical Characterization and Identification, Bonnie Yates, National Wildlife laboratory, NWAFS workshop, Spokane, WA, 2002.

Concrete and Portland Cement Materials Analysis, Laura Powers, Construction Technologies Laboratory, Skokie, IL, 2000.

Basic Bloodstain Pattern Analysis, Tom Bevel 40 hour workshop, Seattle, WA, 1999.

Microscopy of Botanical Traces, McCrone Research Institute, Seattle, 1999.

Recovery of Skeletal Remains, NWAFS workshop, Portland, OR, 1998.

Headlamp Examination, California Criminalistics Institute (CCI), Sacramento, CA, 1997.

Explosives Analysis, Jamie Crippen, Colorado Bureau of Investigation, NWAFS spring meeting, Missoula, MT, 1997.

Lehigh University Scanning Electron Microscopy Seminar, Bethlehem, Penn., 1996.

Light Microscopical Analysis of Low Explosives, MVA, NWAFFS, Spokane, WA., 1996.

Oxford Instruments Microanalysis Training Energy Dispersive Spectroscopy, Foster City, California, 1994.

An International Symposium on the Forensic Aspects of Footwear and Tire Impression Evidence, Forensic Science Research and Training Center, FBI Academy, Quantico, Virginia, 1994.

Crime Scene Photography Workshop, NWAFFS, Fall, 1992.

McCrone Research Institute Advanced Small Particle Characterization, Seattle, Washington, 1992.

Soils Examination Workshop, J. Wehreberg, University of Montana, Missoula, Montana, 1992.

Tire Footprint Identification Workshop, P. McDonald, NWAFFS Meeting, Coeur d' Alene, Idaho, 1991.

Paint Pigment Identification, McCrone Research Institute, Chicago, Illinois, July, 1991.

Fourier Transform Infrared Spectroscopy, BioRad Corporation, Seattle, Washington, June, 1991.

Basic Forensic Hair Examination, California Criminalistics Institute, Seattle, Washington, August, 1990.

Advances in Microscopy and Imaging, the Olympus Corporation, Atlanta, Georgia, July 1990.

Forensic Microscopy of Human Hairs, SAFFS and Alabama Association of Forensic Scientists, Selma, Alabama, 1990.

Paper Fiber Identification, The Institute of Paper Chemistry, Appleton, Wisconsin, May 1989.

McCrone Research Institute, Visual Thermal Analysis (Fusion Methods), 1989.

McCrone Environmental Services, Theory and Application of SEM, Atlanta, Georgia, October 1988.

McCrone Research Institute, Advanced Microscopical Identification of Asbestos, Chicago, Illinois, July, 1988.

Owens-Corning Technical Center, Manufacture and Optical Characteristics of Glass Products, Granville, Ohio, April, 1988.

McCrone Research Institute, Microscopical Identification of Asbestos, Chicago, Illinois, November 1987.

## **Professional Organizations:**

Organization of Scientific Area Committees (OSAC), Geological Materials Subcommittee, National Institute of Science and Technology (NIST), 2014-present.

Scientific Working Group for Geological Materials (SWGGE0) – Chairman, 2012-2014.

International Union of Geological Sciences (IUGS) – Initiative on Forensic Geology- Board member.

American Board of Criminalistics – Diplomate (ABC)

American Academy of Forensic Science (AAFS)

Scientific Working Group for Materials Analysis (SWGMA0) – Fiber sub-group, 1994-2014.

Northwest Association of Forensic Scientists (NWA0S), 1990-present

The American Society of Trace Evidence Examiners (ASTEE) - Charter member 94.

## **Media productions presenting forensic casework:**

The New Detectives®, Episode 15116, *Stolen Youth*, New Dominion Pictures, 2004.

The History Channel, *Chris Wood Homicide*, 2004

Forensic Files®, Episode 223, *Cereal Killer*, Medstar Television, 2005.

Forensic Files®, Episode 318, *Disrobed*, Medstar® Television, 2007.

Forensic Files®, Episode 324, *Guarded Secrets*, Medstar Television, 2008.

Extreme Forensics/Discovery Channel, *Mined Over Matter*, Michael Hoff Productions, Inc., 2009.

Dateline®, *The Feud*, J. Campbell vs. State of Montana 2016.